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*DATE:*            *October 21, 2005*

*TO:*              RHIC E-Coolers

*FROM:*          *Ady Herscovitch*

*SUBJECT:*      **Minutes of the October 21, 2005 Meeting**

## Memo

Present: Ilan Ben-Zvi, Andrew Burrill, Peter Cameron, Alexei Fedotov, Wolfram Fischer, Harald Hahn, Ady Herscovitch, Dmitry Kayran, Jorg Kewisch, Vladimir Litvinenko, William Mackay, Nikolay Malitsky, Christoph Montag, Thomas Roser, Dejan Trbojevic, Gang Wang (SUNY Stony Brook).

Topics discussed: Machine Advisory Committee Meeting

**Machine Advisory Committee Meeting:** Thomas opened this meeting by pointing out that the dates for the next machine advisory committee meeting were set for January 22<sup>nd</sup> and 23<sup>rd</sup>, 2006. Ilan continued by showing a list of topics to be presented to the machine advisory committee and the people presenting them. According to Ilan, he expects to have an outline next month and expects to have a dry run of the presentation in late December or early January. A discussion ensued regarding the various topics, especially regarding magnetized versus non-magnetized cooling and the RHIC lattice. The consensus was to show that both magnetized and non-magnetized electron beam cooling would work; but non-magnetized cooling is better and easier to implement technically. Alexei is to include simulations and experimental results on both magnetized and non-magnetized electron beam cooling. Concerning lattice issues, studies should commence, and a decision regarding their inclusion in presentations should be postponed. The following is a tentative list of topics and presenters in parenthesis; 14 presentations:

1. RHIC program
2. Introduction (Ilan Ben-Zvi)
3. Photocathode (Andrew Burrill & Triveni Srinivasan-Rao)
4. Electron gun + cavity (Rama Calaga)
5. Diagnostics (Peter Cameron)
6. Solenoid/wiggler (Animesh Jain)
7. Magnetized beam dynamics (Jorg Kewisch)
8. Stability (Gang Wang)
9. Magnetized cooling (Alexei Fedotov)
10. Non-magnetized beam dynamics (Dmitry Kayran & Xiangyun Chang)
11. Non-magnetized cooling (Alexei Fedotov)
12. Summary (Vladimir Litvinenko)